

SEWAGE INFLUENT, DOUGLAS, ARIZONA
INTERNATIONAL TREATMENT PLANT

DESCRIPTION: Parshall flume in the influent line of the older trickling filter unit and a Parshall flume in the influent line of the newer extended aeration unit. The treatment plant is located about 1.6 kilometers west of the Douglas-Agua Prieta Port of Entry immediately adjacent to the international boundary in Douglas, Cochise County, Arizona.

RECORDS: Continuous monthly records since March 1948; daily records from March 18, 1948 through 1950 and from January 1952 through 2001.

REMARKS: The older 4.9 thousand cubic meters per day trickling filter unit was constructed in 1947 by the International Boundary and Water Commission. Since April 8, 1968 all sewage from Agua Prieta has been retained and treated in Mexico to be used for irrigation along with the effluent from the Douglas International Treatment Plant. On July 1, 1973, ownership and operation of the plant was transferred from the International Boundary and Water Commission to the City of Douglas. In 1980 the plant was enlarged, with the addition of the extended aeration unit bringing the total capacity up to 9.8 thousand cubic meters per day. The effluent from the Douglas Treatment Plant is discharged through a conduit to Mexico.

Month	Total Monthly Flows			Mean Daily Flows-Thousand Cubic Meters Per Day					
	Thousand Cubic Meters			Current Year 2001			Period 1952-2001		
	U.S.	Mexico	Total	Maximum	Minimum	Mean	Maximum	Minimum	Mean
Jan.	286	0	286	18.8	5.0	9.2	18.8	1.6	4.5
Feb.	143	0	143	10.9	3.8	5.1	17.7	2.1	4.5
Mar.	176	0	176	11.5	4.1	5.6	13.9	2.2	4.4
April	199	0	199	18.1	4.2	6.6	18.1	1.4	4.5
May	180	0	180	9.5	2.0	5.8	15.0	1.9	4.5
June	161	0	161	7.6	3.7	5.3	15.0	2.1	4.6
July	206	0	206	7.8	3.6	6.6	14.1	1.8	4.8
Aug.	182	0	182	8.6	3.7	5.9	15.1	1.4	4.8
Sept.	192	0	192	9.8	3.7	6.4	9.8	1.8	4.7
Oct.	191	0	191	9.4	3.0	6.2	13.8	2.2	4.6
Nov.	175	0	175	7.6	3.4	6.1	12.4	1.2	4.6
Dec.	223	0	223	11.7	2.7	7.2	12.6	1.7	4.6
Yearly	2,314	0	2,314	18.8	2.0	6.3	18.8	1.2	4.6